



STATE OF UTAH
NATURAL RESOURCES
Water Rights

2/13/86

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

February 10, 1986

Paul B. Allen
P.O. Box 537
Hotchkiss, Colorado 81419

Re: Temporary Change No. 86-92-1
Marathon Federal #13-1 Well

Dear Mr. Allen:

The above referenced Temporary Change Application has been approved and a copy is hereby enclosed for your records and information.

Sincerely,

A handwritten signature in cursive script, reading "Mark P. Page". The signature is written in dark ink and is positioned above the typed name and title.

Mark P. Page, Area Engineer
for Robert L. Morgan, State Engineer

cc: Universal Oil & Gas Inc.
300 Union Blvd. Suite 600
Lakewood, Colorado 80228

Enclosure

RLM/MPP/mjk

031029

APPLICATION NO. 86-92-1
DISTRIBUTION SYSTEM N.A.

Application For Temporary Change of Point of Diversion, Place or Purpose of Use

RECEIVED

STATE OF UTAH

FFR 10 1986

(To Be Filed in Duplicate)

WATER RIGHTS
PRICE

Price, Utah January 15, 1986
Place Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by 92-7 (A-6128) Cert. No. 1513
(Give No. of application, title and date of Decree and Award No.)
to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of
facts, submitted in accordance with the requirements of the Laws of Utah.

1. The owner of right or application is Paul B. Allen
2. The name of the person making this application is Paul B. Allen
3. The post office address of the applicant is P.O. Box 537 Hotchkiss, Colorado 81419
Phone: 1-303-872-3454

PAST USE OF WATER

4. The flow of water which has been used in second feet is 0.5
5. The quantity of water which has been used in acre feet is _____
6. The water has been used each year from March 1 to November 1 incl.
(Month) (Day) (Month) (Day)
7. The water has been stored each year from _____ to _____ incl.
(Month) (Day) (Month) (Day)
8. The direct source of supply is Floy Wash in Grand County.
9. The water has been diverted into _____ ditch
_____ canal at a point located _____
S. 390 ft. & W. 80 ft. from E $\frac{1}{2}$ Cor. Sec. 27, T21S, R18E, SLB&M.
10. The water involved has been used for the following purpose: Irrigation: 3.3 acs. SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 27,
T21S, R18E; 6.2 acs. NE $\frac{1}{4}$ NE $\frac{1}{4}$, 10.5 acs. NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34, T21S, R18E, all SLB&M.
Total 20.0 acres.

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

11. The flow of water to be changed in cubic feet per second is _____
12. The quantity of water to be changed in acre-feet is 3.0
13. The water will be diverted into the tank trucks ditch
_____ canal at a point located _____
S 390 ft. & W. 80 ft. from E $\frac{1}{2}$ Cor. Sec. 27, T21S, R18E, SLB&M.
14. The change will be made from March 1, 1986, to February 28, 1987.
(Period must not exceed one year)
15. The reasons for the change are change from agricultural to industrial uses.
16. The water involved herein has heretofore been temporarily changed 1 years prior to this application.
(List years change has been made)
17. The water involved is to be used for the following purpose: Exploration Drilling: Marathon
Federal #13-1. N. 1997 ft. & W. 662 ft. from SE Cor. Sec. 13, T21S, R18E, SLB&M
(NE $\frac{1}{4}$ SE $\frac{1}{4}$). Total _____ acres.

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

This water will be used by U.O.&G., Inc., for the drilling of the
above referenced well.

Attn: Bob Cohan 300 Union Blvd., Suite 600, Lakewood, Colorado 80228

Phone: 1-303-986-6976

A filing fee in the sum of \$5.00 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Signature of Applicant

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$7.50 Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:

State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

Change Application No. _____ (River System)

1. N. A. Application received by Water Commissioner _____ (Name of Commissioner)
- Recommendation of Commissioner _____
2. FEB. 10, 1986 Application received over counter by mail in State Engineer's Office by SP
3. _____ Fee for filing application, \$7.50 received by _____ ; Rec. No. _____
4. _____ Application returned, with letter, to _____, for correction.
5. _____ Corrected application resubmitted over counter by mail to State Engineer's Office.
6. _____ Fee for investigation requested \$ _____
7. _____ Fee for investigation \$ _____, received by _____ ; Rec. No. _____
8. _____ Investigation made by _____ ; Recommendations: _____
9. _____ Fee for giving notice requested \$ _____
10. _____ Fee for giving notice \$ _____, received by _____ ; Rec. No. _____
11. _____ Application approved for advertising by publication mail by _____
12. _____ Notice published in _____
13. _____ Notice of pending change application mailed to interested parties by _____ as follows: _____
14. _____ Change application protested by _____ (Date Received and Name)
15. _____ Hearing set for _____, at _____
16. 2-10-86 Application recommended for rejection approval by SP
17. 2-10-86 Change Application rejected approved and returned to Paul B. Allen CC UNIN. 0.86

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. _____
2. _____
3. _____

Mark P. Page State Engineer
FOR State Engineer



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

February 10, 1986

Paul B. Allen
P.O. Box 537
Hotchkiss, Colorado 81419

Re: Temporary Change No. 86-92-1
Marathon Federal #13-1 Well

Dear Mr. Allen:

The above referenced Temporary Change Application has been approved and a copy is hereby enclosed for your records and information.

Sincerely,

A handwritten signature in dark ink, appearing to read "Mark P. Page", is written over a horizontal line.

Mark P. Page, Area Engineer
for Robert L. Morgan, State Engineer

cc: Universal Oil & Gas Inc.
300 Union Blvd. Suite 600
Lakewood, Colorado 80228

Enclosure

RLM/MPP/mjk

APPLICATION NO. 86-42-1
DISTRIBUTION SYSTEM. N.A.

Application For Temporary Change of Point of Diversion,
Place or Purpose of Use
STATE OF UTAH

RECEIVED

FFR 10 1986

(To Be Filed in Duplicate)

WATER RIGHTS
PRICE

Price, Utah January 15, 1986

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by 92-7 (A-6128) Cert. No. 1513
(Give No. of application, title and date of Decree and Award No.)
to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of
facts, submitted in accordance with the requirements of the Laws of Utah.

1. The owner of right or application is..... Paul B. Allen
2. The name of the person making this application is..... Paul B. Allen
3. The post office address of the applicant is..... P.O. Box 537 Hotchkiss, Colorado 81419
Phone: 1-303-872-3454

PAST USE OF WATER

4. The flow of water which has been used in second feet is..... 0.5
5. The quantity of water which has been used in acre feet is..... ..
6. The water has been used each year from..... March 1 to..... November 1 incl.
(Month) (Day) (Month) (Day)
7. The water has been stored each year from..... .. to..... .. incl.
(Month) (Day) (Month) (Day)
8. The direct source of supply is..... Floy Wash..... in..... Grand..... County.
9. The water has been diverted into..... .. ditch canal at a point located.....
S. 390 ft. & W. 80 ft. from E $\frac{1}{4}$ Cor. Sec. 27, T21S, R18E, SLB&M.....
10. The water involved has been used for the following purpose:..... Irrigation: 3.3 acs. SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 27,
T21S, R18E; 6.2 acs. NE $\frac{1}{4}$ NE $\frac{1}{4}$, 10.5 acs. NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34, T21S, R18E, all SLB&M.....
- Total..... 20.0 acres.

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED.

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13. The water will be diverted into the tank trucks ditch
canal at a point located
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(Period must not exceed one year)
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(List years change has been made)
17. The water involved is to be used for the following purpose: Exploration Drilling: Marathon
Federal #13-1. N. 1997 ft. & W. 662 ft. from SE Cor. Sec. 13, T21S, R18E, SLB&M
(NE $\frac{1}{4}$ SE $\frac{1}{4}$). Total acres.
- NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

This water will be used by U.O.&G., Inc., for the drilling of the above referenced well.

Attn: Bob Cohan 300 Union Blvd., Suite 600, Lakewood, Colorado 80228

Phone: 1-303-986-6976

A filing fee in the sum of ~~\$6.00~~^{7.50} is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Signature of Applicant

RULES AND REGULATIONS

(Read Carefully)

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When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:

State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

- Change Application No. (River System)
1. N.A. Application received by Water Commissioner (Name of Commissioner)
- Recommendation of Commissioner
2. FEB 12, 1986 Application received over counter by mail in State Engineer's Office by SP
3. Fee for filing application, \$7.50 received by ; Rec. No.
4. Application returned, with letter, to for correction.
5. Corrected application resubmitted over counter by mail to State Engineer's Office.
6. Fee for investigation requested \$
7. Fee for investigation \$, received by : Rec. No.
8. Investigation made by ; Recommendations:
9. Fee for giving notice requested \$
10. Fee for giving notice \$, received by : Rec. No.
11. Application approved for advertising by publication mail by
12. Notice published in
13. Notice of pending change application mailed to interested parties by as follows:
14. Change application protested by (Date Received and Name)
15. Hearing set for at
16. 2-12-86 Application recommended for rejection approval by SP
17. 2-12-86 Change Application rejected approved and returned to PAUL B. ALLEN CC UNN. D.G.

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1.
2.
3.

Mark P. Ryan State Engineer
For State Engineer



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

U. D. & G, Inc

February 10, 1986

RECEIVED
FEB 13 1986

DIVISION OF
OIL, GAS & MINING

Division of Oil Gas & Mining
Attn: Arlene Sollis
355 West North Temple
3 Triad Center Suite 350
Salt Lake City, Utah 84180-1203

Re: Temporary Change Application No. 86-92-1
Marathon Federal Well #13-1

Dear Arlene:

The above referenced Temporary Change Application has been approved and a copy is enclosed herewith for your records and information.

Please contact me if you have any questions.

Sincerely,

Mark P. Page
Area Engineer

Enclosure

MPP/mjk

OPERATOR U. O. & G. Inc DATE 2-21-86

WELL NAME Marathon Fed. 13-1

SEC NE SE 13 T 21S R 18E COUNTY Grand

43-019-31221
API NUMBER

Fed.
TYPE OF LEASE

CHECK OFF:

☒

PLAT

☒

BOND

☒

NEAREST
WELL

☒

LEASE

☒

FIELD

☒

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well within 920'

Water & -#86-92-1

APPROVAL LETTER:

SPACING: ☐ 203 _____
UNIT

☒ 302

☐ _____
CAUSE NO. & DATE

☐ 302.1

STIPULATIONS:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-45033. (Federal Lease)
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME n/a
2. NAME OF OPERATOR U.O.&G., Inc.		7. UNIT AGREEMENT NAME n/a
3. ADDRESS OF OPERATOR 500 Union Blvd., Suite 600, Lakewood, Colorado 80228		8. FARM OR LEASE NAME MARATHON-FEDERAL
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface T21S-R18E Sec 13: NESE (1997' FSL 662' FEL) At proposed prod. zone Same as above at Navajo formation.		9. WELL NO. 13-1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 4 1/2 miles NW of Crescent Junction.		10. FIELD AND POOL, OR WILDCAT ✓ Undesignated
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 662' FEL		11. SEC., T., R., M., OR SLE. AND SURVEY OR AREA Sec 13: T21S-R18E
16. NO. OF ACRES IN LEASE 800		12. COUNTY OR PARISH Grand
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE Utah
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. n/a		19. PROPOSED DEPTH 5500' <i>Navajo</i>
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* 3/1/86
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GL 4993'		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24# K-55	500'	Circulate to surface
7 7/8"	5 1/2"	15.5# J-55	5500'	1000' fillup (200 sxs)

We propose to drill a, Navajo test to 5500'.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 3-3-86
BY: John R. Bay
WELL SPACING: 302

RECEIVED
FEB 24 1986

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED: James S. Jones TITLE: President DATE: 1/20/86
(This space for Federal or State office use)

Permit No. 43-019-31221 Approval Date _____

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

STATE OFFICE: Utah
SERIAL NO.: U-45033

and hereby designates

NAME: Universal Oil and Gas, Inc.
ADDRESS: 300 Union Blvd., Suite 600
Lakewood, Colorado 80228

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160) with respect to (describe acreage to which this designation is applicable):

Township 21 South, Range 18 East
Section 13: S $\frac{1}{2}$ NW $\frac{1}{4}$, S $\frac{1}{2}$

Grand County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the authorized officer of any change in the designated operator.

MARATHON OIL COMPANY, as successor in
interest to Husky Oil Company

R. K. Bitter
R. K. Bitter (Signature of lessee)
Attorney-in-Fact

January 17, 1986

(Date)

P. O. Box 120 - Casper, Wyoming 82602
(Address)

U.O. & G. Inc.
Well No. Marathon-Federal 13-1
Sec. 13, T. 21 S., R. 18 E.
Grand County, Utah
Lease U-45033

Conditions of Approval

B. SURFACE USE PROGRAM

Drastically disturbed lands may require specific reclamation practices. These changes can be agreed upon during future scheduled field visits.

Studies may indicate a change in the seed species listed in this APD.

There will be approximately 3 acres of disturbance.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The following seed mixture will be used:

<u>Species</u>	<u>lbs/acre</u>
----------------	-----------------

Grasses

Sporobolus airoides	Alkali sacaton	1
Oryzopsis hymenoides	Indian ricegrass	2
Elymus junceus	Russian wildrye	2

Forbs

Medicago sativa	Alfalfa (Spreador II, Nomad, Ladak)	1
-----------------	--	---

Shrubs

Artemesia tridentata	Big Sage	1
Atriplex canescens		<u>2</u>

9 lbs/acre

Final location release will be issued when the seeding is shown to be successful (when perennial vegetation is established).

Your contact with the District Office is:

Greg Noble, Petroleum Engineer Office Phone: (801) 259-6111
Home Phone: (801) 259-8811

District Address:

82 East Dogwood, P.O. Box 970
Moab, Utah 84532

Your contact with the Grand Resource Area Office is:

Jeff Robbins Office Phone: (801) 259-8193
Home Phone: (801) 259-7964

Area Office Address:

Sand Flats Road, P.O. Box M
Moab, Utah 84532

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT
CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company: U.O.&G., Inc.
Well Name: Marathon-Federal 13-1
Location: T21S-R18E Section 13: NE/4SE/4
Lease Number: U-45033
Onsite Inspection Date: January 14, 1986

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM:

1. Surface Formation and Estimated Formation Tops:

Surface: Mancos
3350 : Dakota Silt
3530 : Dakota Sand
3574 : Morrison: Brushy Basin
3758 : Salt Wash
4272 : Moab Tongue
4287 : Summerville
4444 : Entrada
4774 : Carmel
4915 : Navajo
5500 : Total Depth

2. Estimated Depth at Which Oil, Gas, Water, or Mineral-Bearing Zones are Expected to be Encountered:

	<u>Formation</u>	<u>Depth</u>
Expected Oil Zones:	Salt Wash	3758
	Navajo	4915
Expected Gas Zones:	Brushy Basin	3574
	Salt Wash	3758
Expected Water Zones:	Dakota Sand	3530
	Entrada	4444
	Navajo	4915
Expected Mineral Zones:	n/a	

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by

depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

A diagram (Exhibit A) illustrating the pressure control equipment is attached. BOP equipment will consist of a flanged 10" series 900 hydraulically actuated double gate system complete with blind rams and 3 1/2", 4", or 4 1/2" pipe rams. Remote controls for the system will be operational and hand wheels installed. BOP and the choke manifold will be installed after running and cementing surface casing. This equipment will be used continuously until the well is abandoned or production casing run and cemented for completion. Surface casing, the blind rams, and pipe rams will be pressure tested to 1000 psig prior to drilling the plug.

During drilling the operation of this equipment will be inspected daily and the pipe rams checked for operation. The blind rams will be closed every trip when the drill string has been removed. All inspections, operations, and tests of this equipment will be recorded on the daily drilling report.

The Moab BLM office will be notified twenty-four (24) hours in advance of any pressure tests.

Other auxiliary equipment will include a float at the bit, kelly cock and full opening pipe valve on the floor.

4. Casing Program and Auxiliary Equipment:

<u>DEPTH</u>	<u>HOLE SIZE</u>	<u>CASING SIZE</u>	<u>WT. (#/ft)</u>	<u>GRADE</u>	<u>CEMENT VOLUME</u>
500'	12 1/4"	8 5/8"	24	K-55	Class G, Circulate to surface
5500'	7 7/8"	5 1/2"	15.5	J-55	1000' fillup (4500')

• (See Casing Design Worksheet)

Well head equipment will be a 3000 psig working pressure flanged bradenhead for the 8 5/8" surface casing. A flanged 3000 psig working pressure tubing spool will be used for a tubing head. The Resource Area will not be notified when running casing strings and cement.

MARATHON-FEDERAL 13-1
T21S-R18E Section 13: NE/4SE/4
Grand County, Utah

CASING DESIGN

Casing Size: 5 1/2" 15.5#/ft. J-55 LT & C @ 5500'

Burst Resistance: = 4810#

Collapse Resistance: = 4040#

Joint Tension Strength: = 217,000#

Expected Stresses:

Burst = Expected BHP

= 1900# (Based on DST of Blaze #1-A)

Burst Safety Factor = $\frac{4810}{1900} = \underline{2.53}$

Collapse = .052 x ρ x D
= .052 x 9 lbs/gal x 5500' = 2574#

Collapse Safety Factor = $\frac{4040}{2574} = \underline{1.57}$

Joint Tension Strength:

String Weight = 15.5 #/ft x 5500' = 85,250#

Joint Tension Strength Safety Factor = $\frac{217,000}{85,250} = \underline{2.55}$

Based on the above calculations it is apparent that this casing string satisfies the minimum design criteria of Collapse (1.125), Burst (1.0) and Joint Tension Strength (1.8).

5. Mud Program and Circulating Medium:

0-500' Mud Weight: 8.5 - 9.2 ppg; Viscosity: 32-40
Drill w/Gel-Lime slurry adjusting w/Gel as needed for hole cleaning. Use fiber and cottonseed hulls for lost circulation.

500-5500' Mud Weight: 8.7 - 9.1 ppg; Viscosity: 36-45;
Fluid Loss: 8-10 cc; pH 9.0 - 9.5

Drill out surface casing with air. Switch to air mist as required due to invasion of formation water. Go to mud as needed due to deteriorating hole conditions requiring additional hydrostatic head and hole cleaning that can only be provided by a drilling fluid. A complete mud system will be built into the surface pits so it is available when needed.

A KCl/Gel system, 2-3% KCl, Gel as required for needed viscosities, Drispac 1/2#/bbl (8 cc or less), Caustic 1/4# bbl, or as required for a 9.0-9.5 pH, will be used due to sensitive clays that will be encountered.

Lost circulation problems will be countered using fibrous and fairly coarse materials such as Fiber, Cottonseed Hulls, and Multi-Seal. If this is not successful the entire mud system will be treated with LCM in percentages needed to maintain full returns. Mud weights should be kept less than 9 ppg.

The monitoring equipment on the mud system will be the mudloggers gas chromatograph.

Blooiie line will be misted to reduce fugitive dust when air drilling.

The following amounts of materials will be kept on location:

- 200 sxs bentonite (Gel)
- 175 sxs LCM
- 50 sxs barite
- 15 sxs fluid loss additive
- 10 sxs caustic soda
- 100 sxs KCl
- 10 sxs soda ash
- 25 sxs dispersent

6. Coring, Logging, and Testing Program:

The well will be drilled to a total depth of approximately 5500'. Dual Induction and CNL-FDC logs will be run from TD to bottom of surface casing.

DST - Provisional for the Navajo formation, Salt Wash formation, and other shows:

Cores - No coring is anticipated.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

Maximum pressure anticipated is 2000 psig in the Navajo formation and should not require more than normal mud weight for control. No abnormal temperatures or hydrogen sulfide are anticipated.

8. Anticipated Starting Dates and Notification of Operations:

The operator will contact the Grand Resource Area at (801) 259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the Area Manager within a minimum of twenty-four (24) hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continue each month until this well is physically plugged and abandoned. This report will be filed directly with the BLM District Office, P.O. Box 970, Moab Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If the replacement rig is contemplated for completion operations, a "Sundry Notices" (Form 3160-5) to that effect will be filed for prior approval of the District Manager, and all conditions of this approved plan are

applicable during all operations conducted with the replacement rig. In emergency situations, verbal approval to bring on a replacement rig will be approved by the District Petroleum Engineer.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guideline in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows:

Steel pipe 10 feet in length, 4 inches in diameter, of which 4 feet shall be above ground level, the remainder being securely embedded in cement. The top of the pipe will be permanently sealed.

The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker plate, cap or beaded-on with a welding torch:

"Fed" or "Ind", as applicable, "Well Number, Location by 1/4 1/4 Section, Township and Range". "Lease Number".

B. THIRTEEN-POINT SURFACE USE PLAN

APD for MARATHON-FEDERAL 13-1

U.O.&G., Inc. (Universal Oil & Gas, Inc.) will assure that this APD will be posted in the doghouse of the drilling rig during the drilling of this well. Also, a sign will be posted at the entrance to the location with the name of the well, operator and location description. We will notify the BLM in Moab, Utah 48 hours prior to beginning any work on this land. Prior to starting surface construction operations, the dirt contractor shall have a completed, approved copy of this APD.

1. Existing Roads:

- a. Location of proposed well in relation to town or other reference point:

4.5 air miles northwest of Crescent Junction, or 6 miles by road.

- b. Proposed route to location:

Access to Marathon-Federal 13-1 begins at Crescent Junction, Utah and proceeds northwesterly along the county road for five miles. At this point, bear left (southwest) at fork in county road and proceed 0.8 miles to a point where approximately 700 feet of new road will be constructed to the well pad.

- c. Plans for improvement and/or maintenance of existing roads:

All existing roads are county roads and are in good condition and will require no upgrading. In the event that maintenance becomes necessary, a blade will be used to bring the road into as good or better condition than it was found.

In the event that the well should be a producer, the road will be crowned, ditched, water bars installed with spreader ditches and upgraded to Class III BLM standards.

2. Planned Access Roads:

- a. A new road approximately 700 feet long will be built from the existing road to the location. The maximum disturbed width will be 18 feet. The road will be built according to Class III BLM road standards.

- b. No grades over 6% will be required.
- c. Turnouts: none
- d. The centerline has been flagged.
- e. One low water crossing will be required.
- f. No surface materials will be required.
- g. Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional areas needed will be approved by the appropriate BLM Manager in advance.

The access road will be rehabilitated or brought to Resource (Class III) road standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the BLM Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells:

EXHIBIT "B"

- a. Within a 2 mile radius of this proposed well, there are nine P & A wells:

OPERATOR	WELL NAME	LOCATION
Phillips Petroleum	3 Blaze A	T21S-R18E Sec 12: SWNE
BWAB Inc.	12-42 Federal	T21S-R18E Sec 12: SENE
Colonial Oil	1 Gov't.	T21S-R18E Sec 23: SWNESE
Hamilton Bros. Texas Gas Exploration	1 Salt Valley NW Unit	T21S-R18E Sec 23: SENW
Kanab Uranium	1 Gov't.	T21S-R19E Sec 7: SWSW
Oil Securities & Uranium	2 Gov't.	T21S-R19E Sec 7: SESWSW
Oil Securities & Gas	3 Gov't.	T21S-R19E Sec 7: NWSWNE
Continental Oil	1 Unit	T21S-R19E Sec 7: C NENE
Phillips Petroleum	1 Blaze-C	T21S-R19E Sec 17: SWSW

- b. Within a 2 mile radius of this proposed well there is

one producing well:

Larry Brandly 1 Blaze-A T21S-R18E Sec 12: NESW

c. Within a 2 mile radius of the proposed well, there is one shut-in oil well:

U.O.&G., Inc. Armstrong- T21S-R18E Sec 12: SWSE
Federal 12-1

d. With the exception of the above mentioned wells, there are no:

1. Known water wells
2. Temporarily abandoned wells
3. Disposal wells
4. Monitoring or observation wells

Mr. Gardner from the State of Utah Water Rights board, informed me that there are no water wells within a two mile radius of this location.

4. Location of Tank Batteries and Production Facilities:

U.O.&G., Inc., does not request approval of surface production facilities at this time. U.O.&G., Inc., will submit a surface facility plan when well is proven to be commercial.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from:

The water source will be from Floy Creek (by road 3 miles northeast of location), and will be purchased from Mr. Paul Allen. (Exhibit C)

a. Temporary water permit has been applied for from the Utah State Engineer at Price, Utah, to haul water from Floy Creek (T21S-R19E Sec 32: SENE) to the Marathon-Federal 13-1 well.

6. Source of Construction Material:

Any construction materials required will be native materials located on the leases. Material from cuts will be used in fills.

7. Methods of Handling Waste Disposal:

The reserve pit will not be lined. Three sides of the reserve pit will be fenced with woven wire before drilling starts. The fourth side will be fenced as soon as drilling is completed. The fence will be kept in good

repair while the pit is drying.

Produced waste water will be confined to the unlined pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the BLM Manager's approval pursuant to Onshore Oil and Gas Order #3 (NTL-2B).

The storage and disposal method for the various materials are outlined below:

- a. Cuttings: These will be contained on location in the reserve pit.
- b. Drilling Fluids, Chemicals, and Salts: These will be contained in the reserve pit.
- c. Sewage: Chemical toilets will be used.
- d. Garbage and Other Waste Materials: A portable trash cage will be kept on location to contain these. Periodically the location will be cleaned and all trash placed in the container. No trash will be thrown in the reserve pit. The trash cage will be hauled to a sanitary landfill and emptied when it fills up. Barrels, cable, wood pellets, and all other trash will be hauled to a local sanitary landfill to be disposed of. If burning is required, a permit will be obtained from the State Fire Warden in Moab, Utah.

The Operator will be responsible for all trash and roadside litter generated by their operations along their access route - from the County Road to the Location.

8. Ancillary Facilities:

Camp facilities will not be required.

9. Well Site Layout:

Exhibit "D" shows the rig layout. Exhibit "E" shows the pad layout. Exhibit "F" illustrates the cuts and fills.

The reserve pit will be located on the northwest side of the location.

The top 12" of soil material and brush will be removed from the location and stockpiled on the northeast edge of the location in a windrow fashion. Topsoil along the access road will be reserved in place adjacent to the road.

Access to the well pad will be from the southeast and the trash cage will be on the northwest side of the location.

10. Plans for Restoration of Surface:

The Operator or his Contractor will contact the Grand Resource Area, telephone - 801 259-8193, forty-eight (48) hours prior to starting rehabilitation work that involves earth moving equipment, and upon completion of restoration measures.

Before any earthwork to restore the location takes place, the reserve pit will be dry and all trash (barrels, metal, etc.) it contains must be removed and disposed of in a sanitary landfill.

All disturbed areas of the location will be recontoured to blend as nearly as possible with the surrounding area.

The stockpiled topsoil will be evenly distributed over the disturbed area. All disturbed areas will be scarified with the contour to a depth of 8-12 inches. A roughened surface will be left on the pad.

Seed will be drilled during the period specified by the BLM authorized officer with the stipulated seed mixture. Seeding will be repeated until vegetation is successfully established. Seeding will be done in presence of the authorized officer.

The disturbed areas will be reseeded using a seed mixture as stipulated by the BLM office in Moab, Utah. Seeding will be accomplished by using a range drill or by doubling the prescribed mixture and broadcasting.

11. Surface and Mineral Ownership:

Federal Lease No. U-45033

12. Other Information:

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A cultural resource clearance has been performed as required, on January 9, 1986, by Mr. Carl Conner, Archaeologist. (see Exhibit "G")

This permit will be valid for a period of one (1) year from date of approval. After permit termination, a new application will be filed for approval for any future operations.

It is U.O.&G., Inc.'s company policy that no U.O.&G., Inc. employees or subcontractors carry firearms on access roads nor onto the location during drilling or well completion operations of this well. No alcoholic beverages or drugs will be permitted on the U.O.&G., Inc. operations on this property.

All operators, subcontractors and vendors will be confined to established roads and wellsite.

The BLM in Moab will be notified of construction work, spud, suspended operations, resumption of operations, monthly report of operations, spills, blowouts, leaks, etc.

REMARKS:

All other working interest owners have been notified of the intent to drill the Marathon-Federal 13-1. An operating agreement has been executed.

13. Lessee's Operator's Representative and Certification:

I assure you this is all correct and that we will abide by all BLM rules and regulations to the best of my ability.

Representative:

U.O.&G., Inc.
James S. Jones, President
300 Union Blvd., Suite 600
Lakewood, Colorado 80228
(303) 986-6976

Home address:
James S. Jones
12137 West 54th Drive
Arvada, Colorado 80002

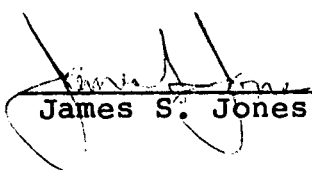
CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by:

U.O.&G., Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date: _____

1/21/86


James S. Jones, President

ONSITE:

DATE: January 14, 1986

PARTICIPANTS:

TITLES:

J. Robbins

BLM - Inspector

Bob Cohan

U.O.&G., Inc.-
Reservoir Engineer

Your contact with the District Office is: Greg Noble

Office Phone: 801 259-6111

City: Moab

State: Utah

Resource Area Manager's address and contacts are:

Address: P.O. Box M, Moab, Utah 84532

Your contact is: Jeff Robbins

Office Phone: 801 259-8193

PROPOSED LOCATION:
MARATHON FEDERAL 13-1

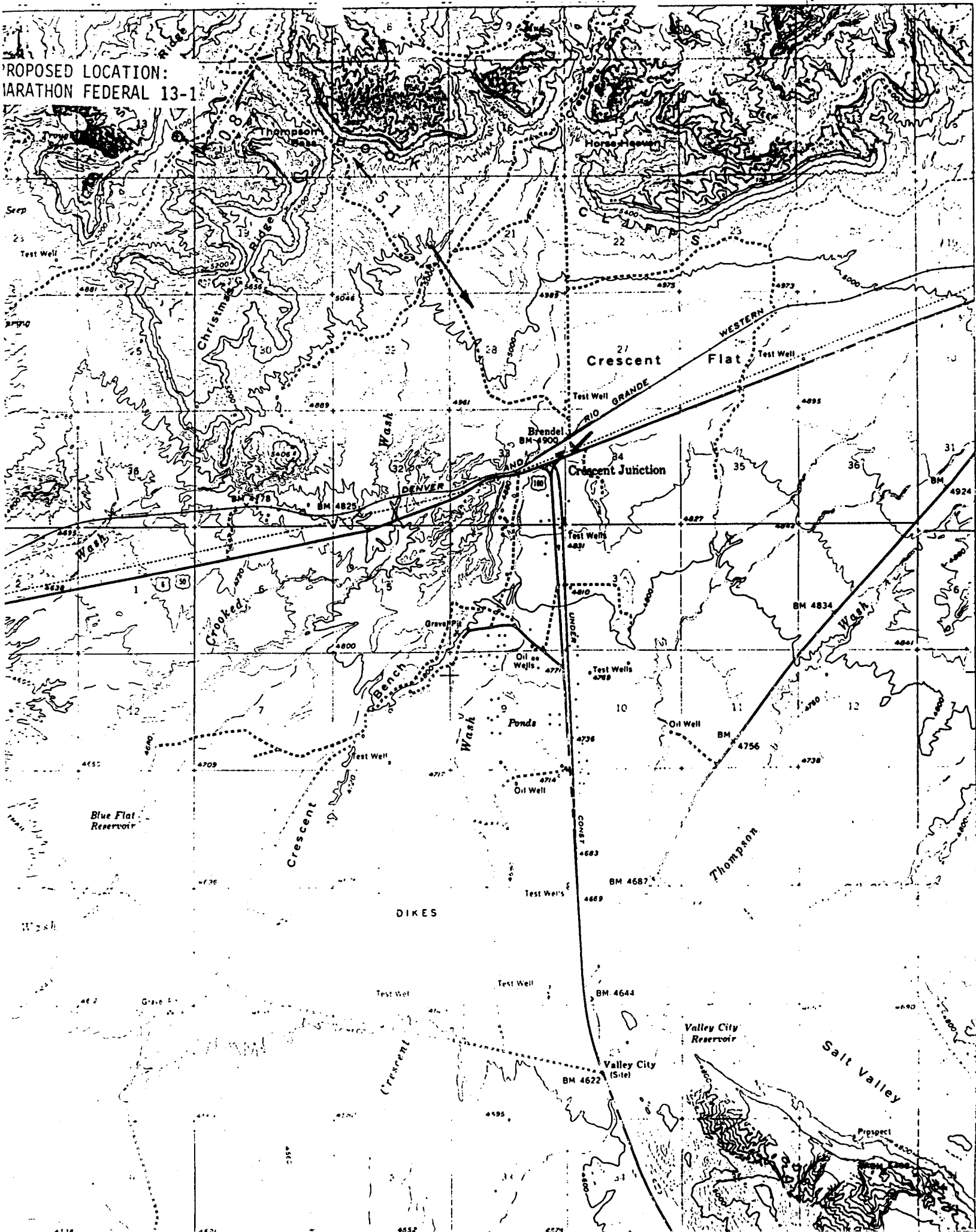
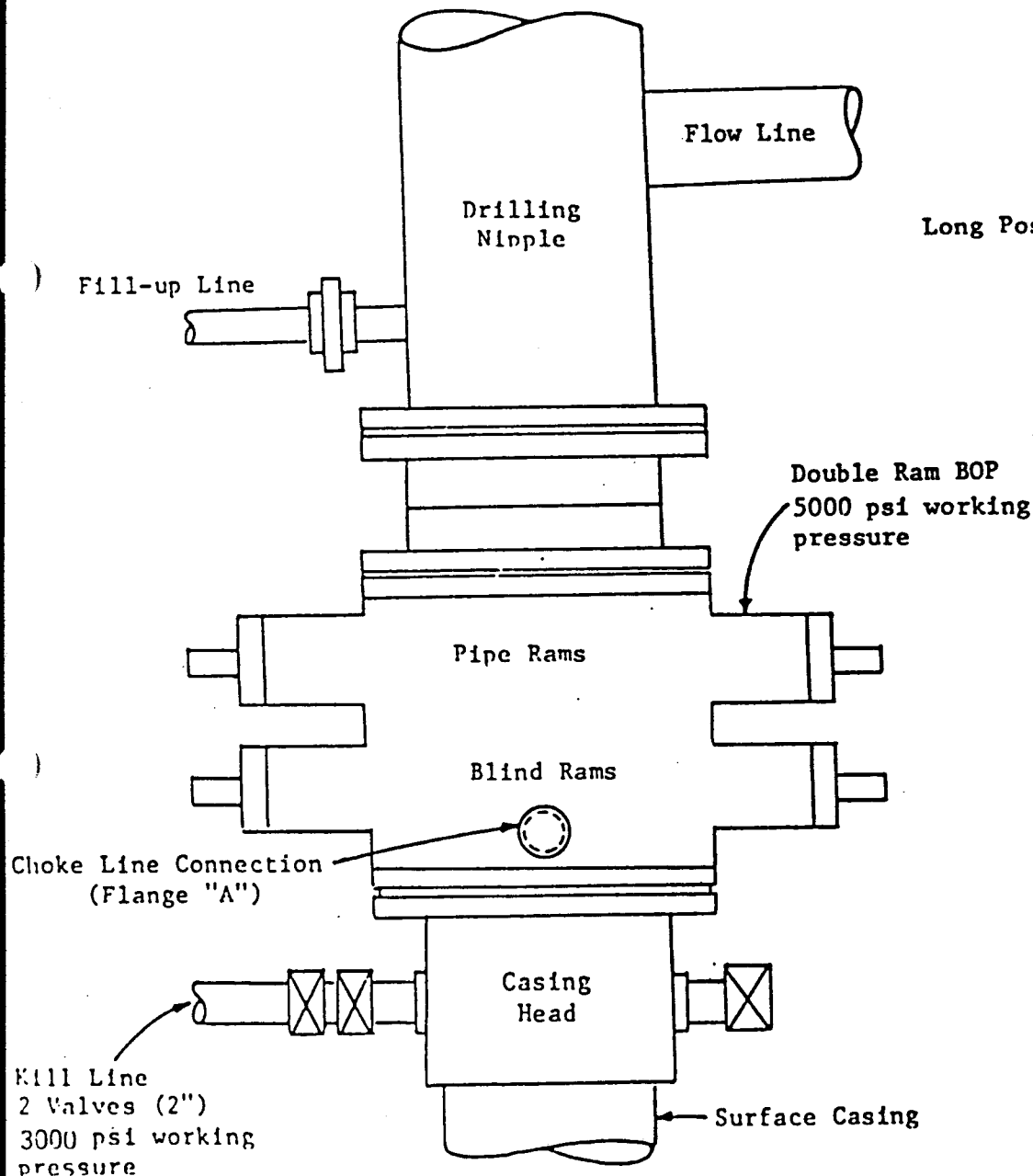
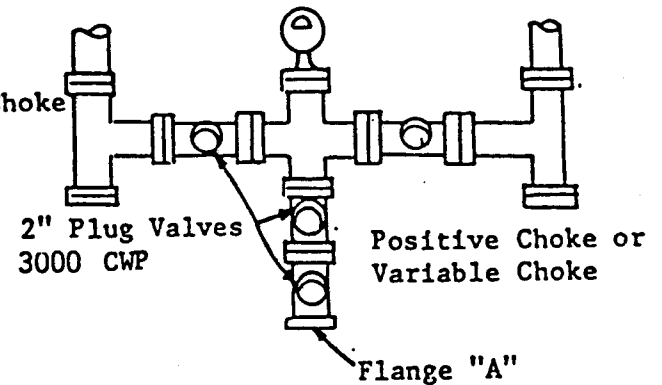


EXHIBIT A



Flanged Cross with Pressure Gauge in Outside Opening

Long Positive Choke



Plan View-Choke Manifold

Testing Requirements

Pipe rams: Operated daily.
Blind rams: Operated and closed every opportunity.
Accumulation: Checked daily.

U.O.&G., INC.

BLOWOUT PREVENTER

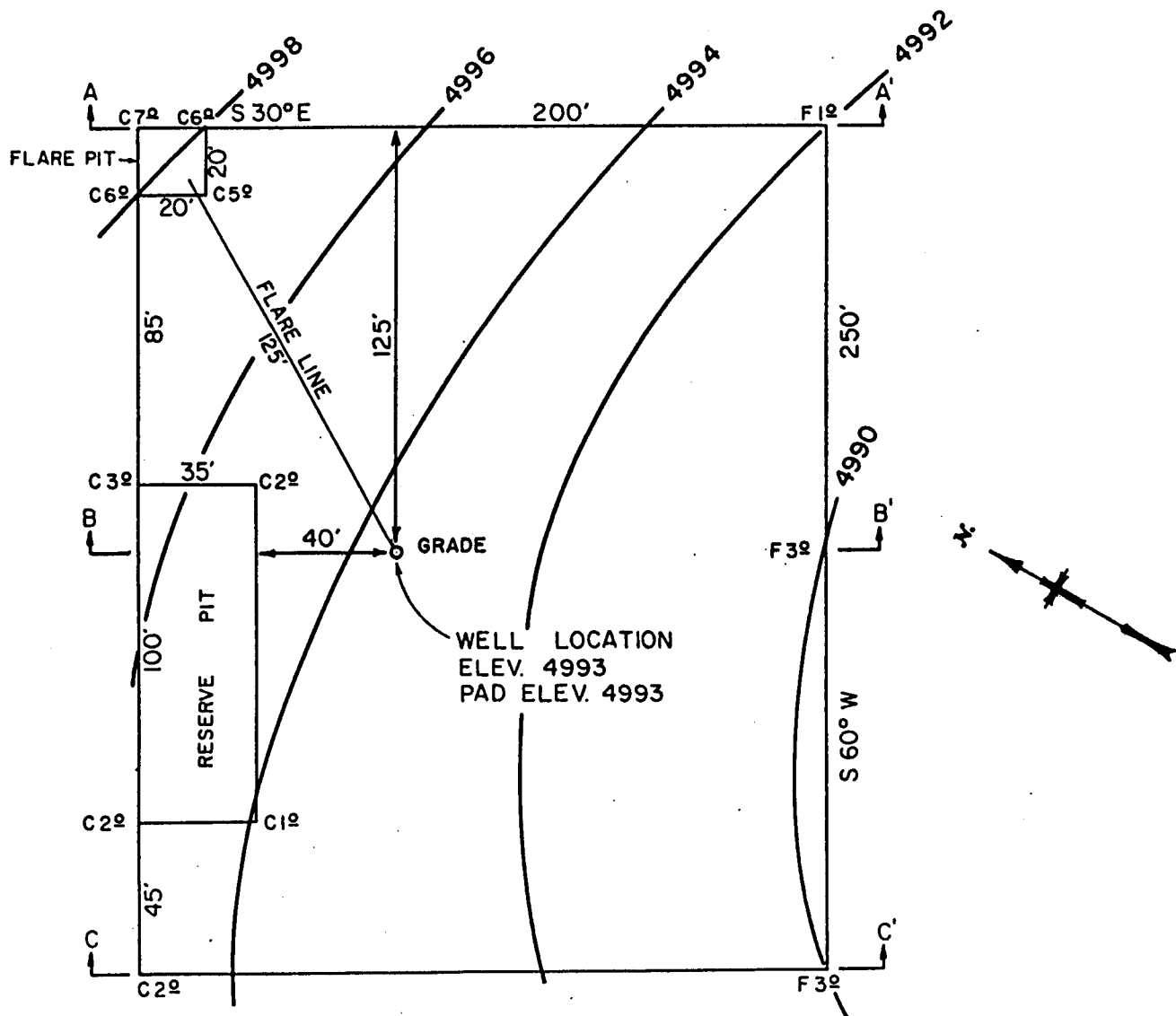
MARATHON-FEDERAL 13-1

NE/4SE/4 Section 13

T21S-R18E

GRAND COUNTY, UTAH

January, 1986



SCALE: 1" = 50'
REFERENCE POINTS SET 200' NORTH & WEST

EXHIBIT E

U.O.&G., INC.

PAD LAYOUT

MARATHON-FEDERAL 13-1
NE/4SE/4 Section 13 T21S-R18E

GRAND COUNTY, UTAH

January, 1986

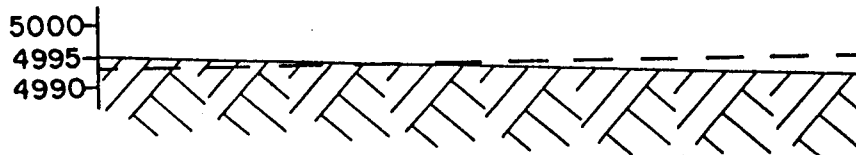
SECTION A-A'



SECTION B-B'



SECTION C-C'



SCALE

HORIZONTAL 1" = 50'
VERTICAL 1" = 30'

EXHIBIT F

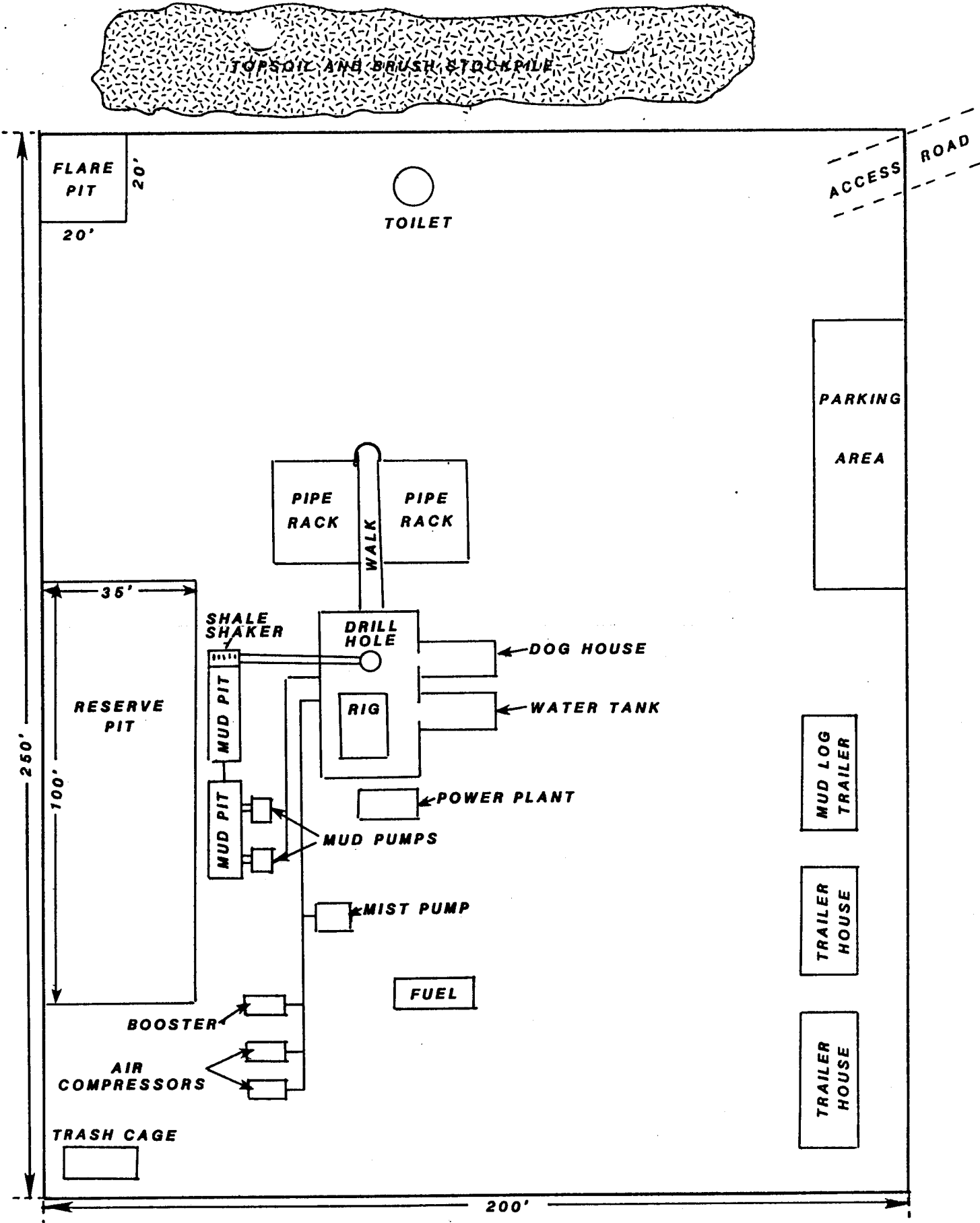
U.O. &G., INC.

**CROSS-SECTIONS
INDICATING REQUIRED CUTS & FILLS**

**ARMSTRONG-FEDERAL 13-1
NE/4SE/4 Section 13 T21S-R18E**

GRAND COUNTY, UTAH

January, 1986



SCALE: 1"=30'

NOTE: EQUIPMENT IS NOT DRAWN TO SCALE.

EXHIBIT D

U.O.&G., INC.

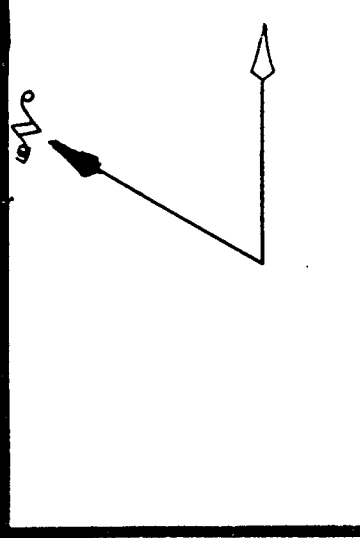
RIG LAYOUT

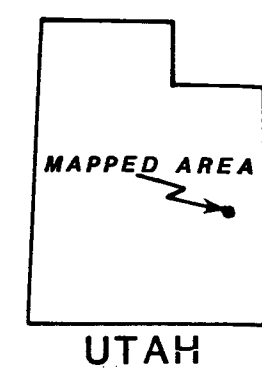
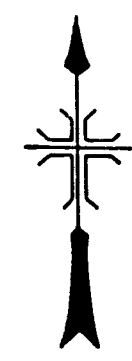
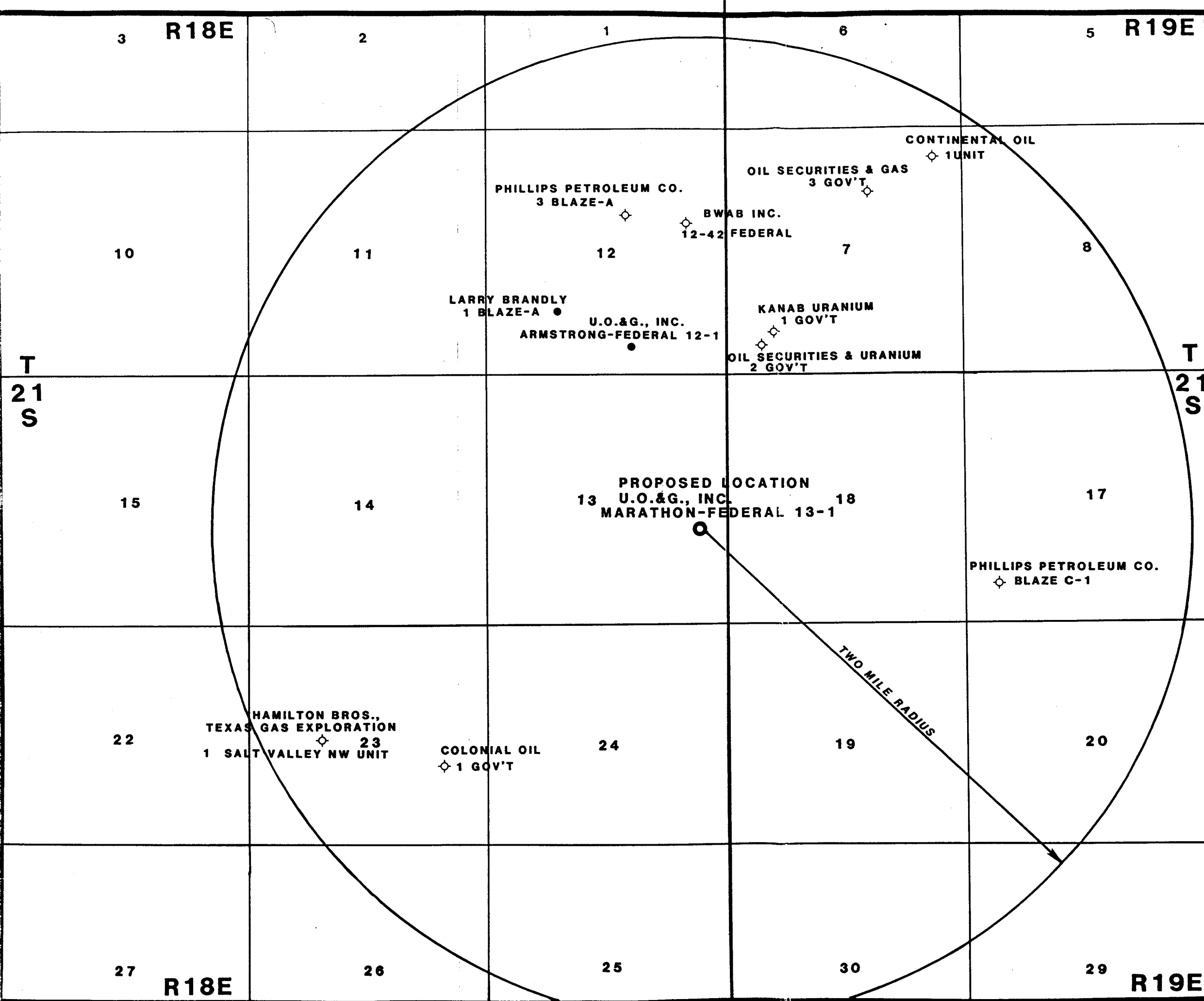
MARATHON-FEDERAL 13-1

NE/4SE/4 Section 13 T21S-R18E

GRAND COUNTY, UTAH

January, 1986





SCALE: 1" - 2000'

EXHIBIT B

U.O.&G., INC.

EXISTING WELLS
IN TWO MILE RADIUS
of
MARATHON-FEDERAL 13-1
NE/4SE/4 Section 13
T21S-R18E

GRAND COUNTY, UTAH
January, 1986

R18E

R19E

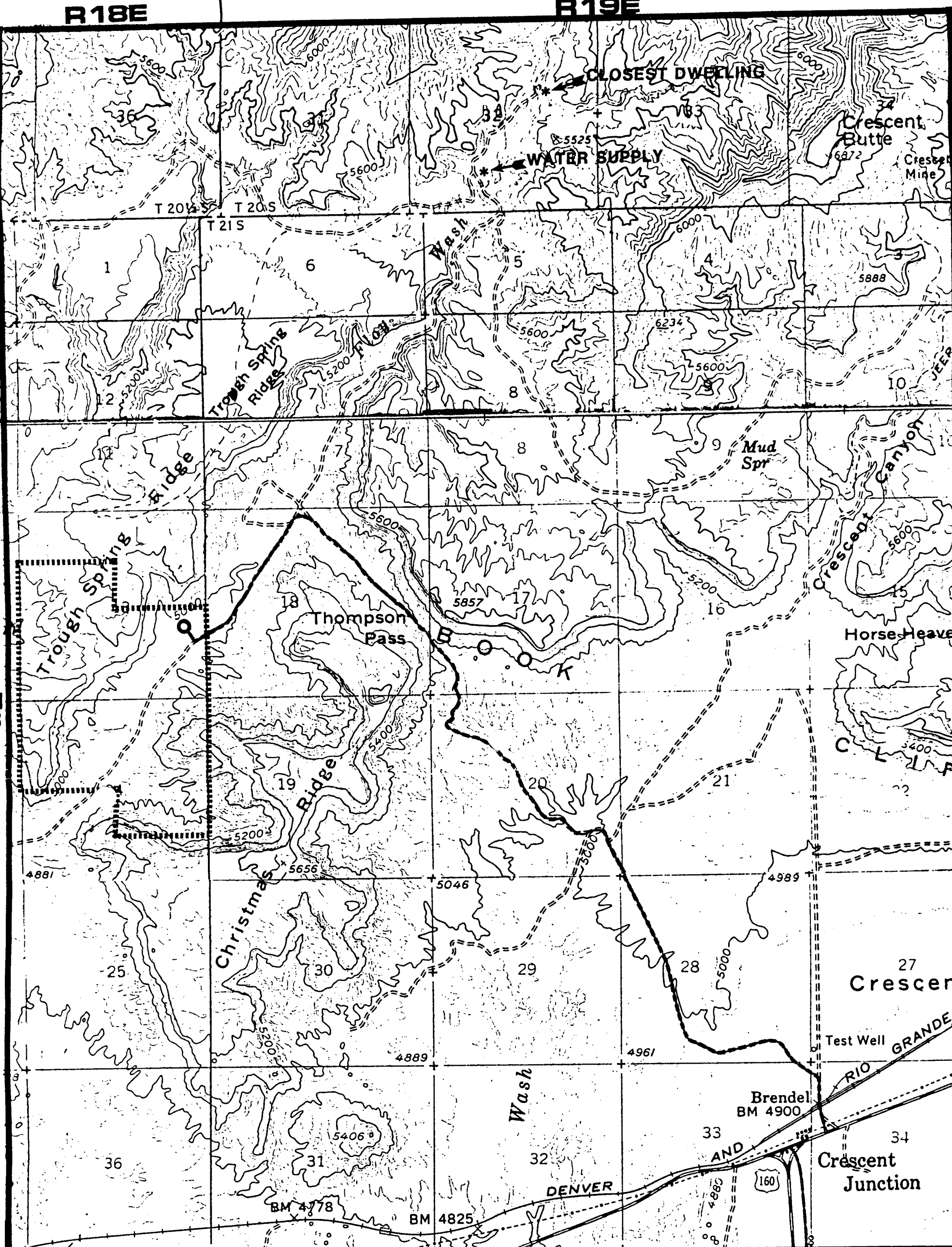


EXHIBIT C

LEGEND

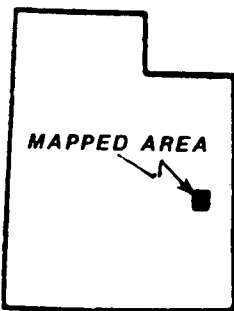
LEASE BOUNDARY
T21S-R18E
Sec. 13: S/2NW/4, S/2
Sec. 24: N/2SE/4, N/2

EXISTING ACCESS ROAD

PROPOSED ACCESS ROAD

SCALE

1 MILE



UTAH

UNIVERSAL OIL & GAS, INC.

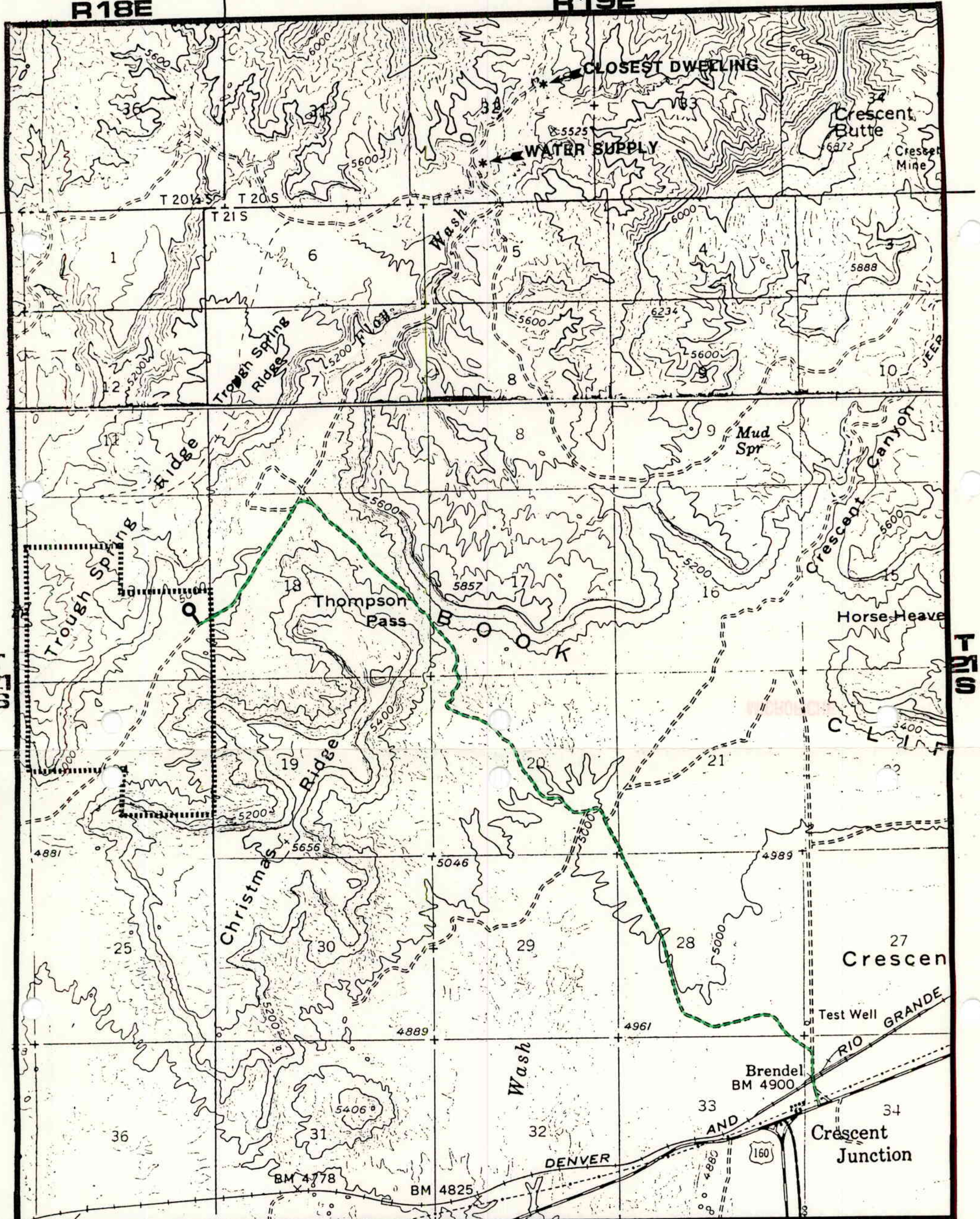
**ACCESS ROADS
&
WATER SUPPLY**

MARATHON-FEDERAL 13-1
NE/4SE/4 Section 13
T21S-R18E
GRAND COUNTY, UTAH

January, 1986

R18E

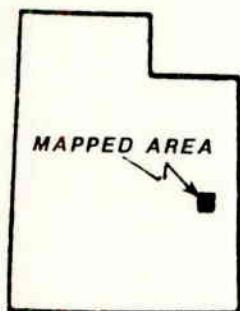
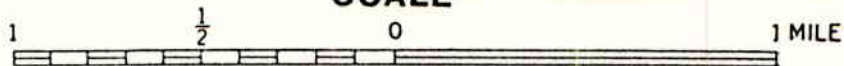
R19E

**EXHIBIT C****LEGEND**

LEASE BOUNDARY
T21S-R18E
Sec. 13: S/2NW/4, S/2
Sec. 24: N/2SE/4, N/2

EXISTING ACCESS ROAD

PROPOSED ACCESS ROAD

SCALE

UTAH

UNIVERSAL OIL & GAS, INC.**ACCESS ROADS
&
WATER SUPPLY**

MARATHON-FEDERAL 13-1
NE/4SE/4 Section 13
T21S-R18E
GRAND COUNTY, UTAH

January, 1986

R18E

R19E

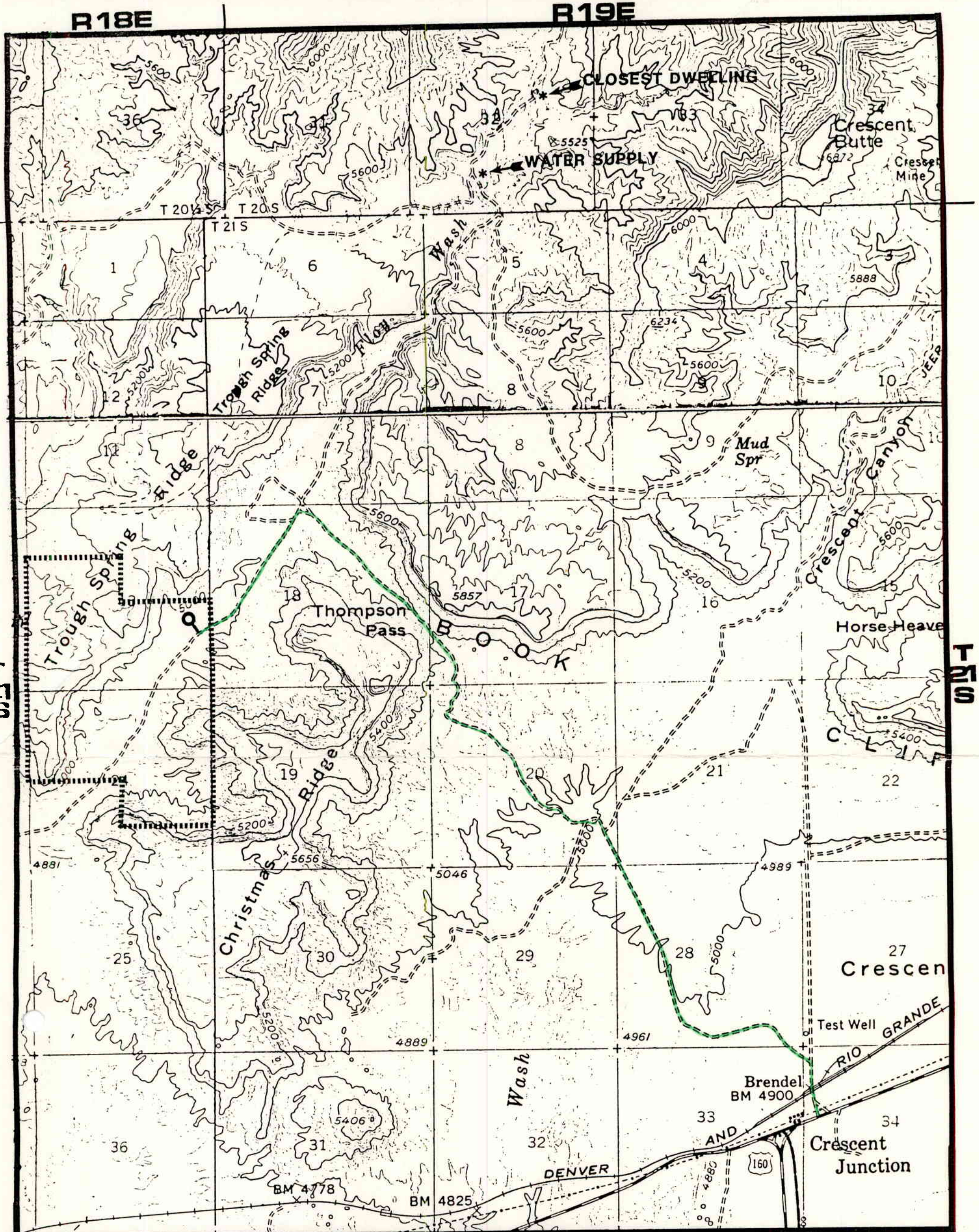
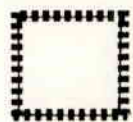


EXHIBIT C

LEGEND



LEASE BOUNDARY
T21S-R18E
Sec. 13: S/2NW/4, S/2
Sec. 24: N/2SE/4, N/2

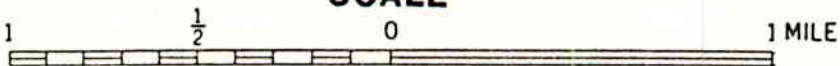


EXISTING ACCESS ROAD



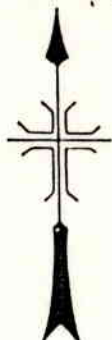
PROPOSED ACCESS ROAD

SCALE



MAPPED AREA

UTAH



UNIVERSAL OIL & GAS, INC.

ACCESS ROADS
&
WATER SUPPLY

MARATHON-FEDERAL 13-1
NE/4SE/4 Section 13
T21S-R18E
GRAND COUNTY, UTAH

January, 1986



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 3, 1986

U. O. & G. Inc.
300 Union Boulevard, Suite 600
Lakewood, Colorado 80228

Gentlemen:

Re: Well No. Marathon Federal 13-1 - NE SE Sec. 13, T. 21S, R. 18E
1997' FSL, 662' FEL - Grand County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302, Oil and Gas Conservation General Rules.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.
5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at each drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.

Page 2

U. O. & G. Inc.

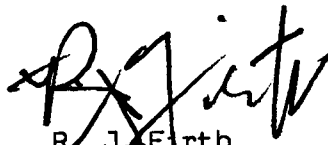
Well No. Marathon Federal 13-1

March 3, 1986

6. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application or an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31221.

Sincerely,

A handwritten signature in black ink, appearing to read "R. L. Firth". The signature is stylized with a large, looped "F" and a trailing "v" shape.

R. L. Firth

Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

Dianne R. Nielson

8159T

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR U.O. & G., INC. 3. ADDRESS OF OPERATOR 300 Union Blvd., Suite 600, Lakewood, Colorado 80228 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface T21S-R18E Sec 13: NE/4SE/4 1997'FSL, 662'FEL 14. PERMIT NO. 15. ELEVATIONS (Show whether SP, RT, OR, etc.) GL 4993		5. LEASE DESIGNATION AND SERIAL NO. U-45033 (Federal) 6. IF INDIAN, ALLOTTEE OR TRIBE NAME n/a 7. UNIT AGREEMENT NAME n/a 8. FARM OR LEASE NAME Marathon-Federal 9. WELL NO. 13-1 10. FIELD AND POOL, OR WILDCAT Blaze Canyon 11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec 13 T21S-R18E 12. COUNTY OR PARISH Grand 13. STATE Utah
--	--	---

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐
 FRACTURE TREAT ☐
 SHOOT OR ACIDIZE ☐
 REPAIR WELL ☐
 (Other) ☐

FULL OR ALTER CASING ☐
 MULTIPLE COMPLETE ☐
 ABANDON* ☐
 CHANGE PLANS ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐
 FRACTURE TREATMENT ☐
 SHOOTING OR ACIDIZING ☐
 (Other) ☐

REPAIRING WELL ☐
 ALTERING CASING ☐
 ABANDONMENT* ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Verbal approval was given by the BLM District Office in Moab, Utah to run 300' of 8 5/8" surface casing instead of 500' as originally proposed on the APD.

Dirt work commenced on Monday, April 14, 1986 and the anticipated spud date is Friday, April 18, or Saturday, April 19, 1986.

Verbal approval was given by Mark Page, State Engineer, to change the water supply to the NE/4SE/4 Sec 13 T21S-R18E (see enclosed map).

RECEIVED

APR 18 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Bob Cohen

TITLE Reservoir Engineer

DATE 04/15/86

(This space for Federal or State office use)

APPROVED BY _____
 CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

April 21, 1986

RECEIVED
APR 22 1986

Universal Oil & Gas Inc.
Attn: Kathryn Irvin
300 Union Blvd. Suite 600
Lakewood, Colorado 80228

DIVISION OF
OIL, GAS & MINING

Re: Temporary Change Application No. 86-92-1
Marathon Federal #13-1 Well

Dear Ms. Irvin:

Pursuant to the information contained in your letter of April 14, 1986, please be advised that paragraph #13 of the above referenced temporary change application has been amended to read:

S. 525 ft. & W. 25 ft. from the E4 Cor.
Sec. 13, T21S, R18E, SLB&M.

This letter will serve as authorization concerning this amendment to this water right.

Should you have any further questions concerning this matter, please feel free to contact me.

Sincerely,

Mark P. Page
Area Engineer

cc:

1) Paul B. Allen
P.O. Box 537
Hotchkiss, Colorado 81419

2) John Gordon
Gordon Engineering
P.O. Box 3052
Grand Junction, Colo. 81501

3) Jeff Robbins
Bureau of Land Management
Grand Resource Office
P.O. Box M
Moab, Utah 84532

4) Div. of Oil, Gas & Mining
Attn: Arlene Sollis
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-45033 (Federal)	
2. NAME OF OPERATOR U.O. & G., INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME n/a	
3. ADDRESS OF OPERATOR 300 Union Blvd., Suite 600, Lakewood, Co 80228		7. UNIT AGREEMENT NAME n/a	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface T21S-R18E Sec 13: NE/4SE/4 1997'FSL, 662'FEL		8. FARM OR LEASE NAME Marathon-Federal	
14. PERMIT NO. 43-019-31221		9. WELL NO. 13-1	
15. ELEVATIONS (Show whether DP, RT, OR, etc.) GL 4993		10. FIELD AND POOL, OR WILDCAT Blaze Canyon	
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec 13 T21S-R18E	
		12. COUNTY OR PARISH Grand	
		13. STATE Utah	

RECEIVED
APR 25 1986
DIVISION OF
OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Spud

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Soudded well on Saturday, April 19, 1986 @ 3:00 P.M. using Leon Ross's (Roosevelt, Utah) little air rig. Drilled a 12 1/4" hole, to 100' and hit moisture. Drilled rat hole and 3 sanitation holes & sent rig home.

Buck Olson's Rig #5 is moving to location from Vernal, Utah today 4/21/86. Should start rigging up tomorrow, 4/22/86. Should resume drilling Wednesday, 4/23/86 or Thursday, 4/24/86 and drill the 12 1/4" hole to 300' at which point 8 5/8" surface casing will be run and cemented to surface with approximately 225 sxs Class G cement with 2% CaCl₂ and 1/4 lbs/sk cello-flake.

18. I hereby certify that the foregoing is true and correct

SIGNED

Robert Cohen

TITLE Reservoir Engineer

DATE 04/21/86

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE*
(Other instructions on
reverse side)

070707

27
Del.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR U. O. & G., Inc. 3. ADDRESS OF OPERATOR 300 Union Boulevard, Suite 600, Lakewood, Colorado 80228 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1997' FSL, and 662' FEL		5. LEASE DESIGNATION AND SERIAL NO. U-45033 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME Marathon - Federal 9. WELL NO. # 13-1 10. FIELD AND POOL, OR WILDCAT Blaze Canyon 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T21S, R18E 12. COUNTY OR PARISH Grand 13. STATE Utah
14. PERMIT NO. 43-019-31221	15. ELEVATIONS (Show whether DF, RT, OR, etc.) G. L. 4993'	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input checked="" type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was plugged and abandoned on May 18, 1986. The following is a list of plugs used in the Plug and Abandonment Procedure.

Navajo Formation	4850' - 4750'	50 sx	
Entrada Formation	4425' - 4325'	50 sx	
Morrison and Dakota Formation	3550' - 3350'	100 sx	
Bottom of Surface	350' - 25'-	50 sx	
Surface		10 sx	

The following is a list of formation names and tops encountered during the drilling of this well:

Navajo	4802'	
Carmel	4675'	
Entrada	4376'	
Moab Tongue	4205'	
Summerville	4162'	
Morrison	4135'	
Salt Wash	4010'	
Morrison	3514'	
Dakota	3486'	
Mancos Shale	Surface (90' Alluvial fill)	

RECEIVED

JUN 25 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED



TITLE Consulting Engineer

DATE June 23, 1986

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 6-30-86

BY: John R. Bap

*See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE*
(Other instructions on
reverse side)

070707

22
Del.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-45033	
2. NAME OF OPERATOR U. O. & G., Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 300 Union Boulevard, Suite 600, Lakewood, Colorado 80228		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1997' FSL, and 662' FEL		8. FARM OR LEASE NAME Marathon - Federal	
14. PERMIT NO. 43-019-31221		9. WELL NO. # 13-1	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) G. L. 4993'		10. FIELD AND POOL, OR WILDCAT Blaze Canyon	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T21S, R18E	
		12. COUNTY OR PARISH Grand	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input checked="" type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

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Surface		10 sx	

The following is a list of formation names and tops encountered during the drilling of this well:

Navajo	4802'
Carmel	4675'
Entrada	4376'
Moab Tongue	4205'
Summerville	4162'
Morrison	4135'
Salt Wash	4010'
Morrison	3514'
Dakota	3486'
Mancos Shale	Surface (90' Alluvial fill)

Shouldn't this be a subsequent instead of an intent?

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Consulting

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

4+5 Yes
7.9.86

OIL, GAS, AND MINING

DATE: 6-30-86

BY: John R. Bap

*See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE*
(See other instructions
on reverse side)

071712

9

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other DXA

2. NAME OF OPERATOR

Universal Oil & Gas, Inc.

3. ADDRESS OF OPERATOR

5161 Ward Road, Unit #4, Wheatridge, Colorado 80033

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1997' FSL, 662' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

43-019-31221

5. LEASE DESIGNATION AND SERIAL NO.

U-45033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Marathon Federal

9. WELL NO.

#13-1

10. FIELD AND POOL, OR WILDCAT

Blaze Canyon

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 13, T21S, R18E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

15. DATE SPUDDED

4/19/86

16. DATE T.D. REACHED

5/16/86

17. DATE COMPL. (Ready to prod.)

DXA

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

4993' G.R.

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4954'

21. PLUG, BACK T.D., MD & TVD

4850'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

DXA

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL-SP, GR-FDC-CNL, and Acoustic Log.

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24# K-55	300'	12-1/4"	225 sx Class G 2% CaCl	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
DNA				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
DNA		

31. PERFORATION RECORD (Interval, size and number)

Plug #1. Navajo 4850-4750' 50 sx
Plug #2. Entrada 4425-4325' 50 sx
Plug #3. Morrison & Dakota 3550-3350' 100 sx
Bottom of Surface. 350-250' 50 sx
Surface. 10. sx.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
DNA	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DXA						DNA	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	WATER—BBL.	GAS-OIL RATIO	
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	WATER—BBL.	GAS—OIL RATIO	OIL GRAVITY-API (CORR.)	
		→					

24. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

JUL 14 1986

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

DIVISION OF
OIL, GAS & MINING

860718 cp

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Consulting Engineer

DATE

July 10, 1986

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORDED INTERVALS: AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST #1: Interval tested 3480-3498', Test misrun.			18 ft. Recovery: 700'± drilling mud-
DST #2: Interval tested 3482-3544', weak blow increasing to fair blow. Initial shut-in 62 ft. Initial opening 30 minutes with opening 90 minutes with very weak blow throughout test. Second shut-in 120 minutes. Recovery: 475 feet -222 ft water cut mud, 119 ft slightly mud cut water, 134 ft salt water. Fluid properties: restivity in mud pit 1.62 at 68°, chlorides 2303 parts per million. Top of Test Fluid: restivity 1.5 at 68°, chlorides 2424 parts per million. Bottom of Test Fluid: restivity .3 at 68°, chlorides 13,333 parts per million. Test Sampler: restivity .20 at 68°, chlorides 21,212 parts per million. Sampler Data: pressure with 25# .02 cu ft of gas, 2200 cc of liquid, temperature at 3553' 122°. Pressure Data: Bottom chart 3460'. Initial hydrostatic 1710.9 1st opening flow 37.2, 1st final flow 92.8, shut-in pressure 1207.7 2nd opening initial 92.8, final flow 204.1, shut-in pressure 1105.3, final hydrostatic 1710.9.			
		NAME	MEAS. DEPTH
		TOP	TRUE VERT. DEPTH
		Navajo	4802
		Carmel	4675
		Entrada	4376
		Moab Tongue	4205
		Summerville	4162
		Morrison	4135
		Salt Wash	4010
		Morrison	3514
		Dakota	3436
		Mancos Shale	Surface(90' Alluvial fl)
		DST #2: Continued. Top Chart at 3539'. Initial hydrostatic pressure 1756.3, 1st flow 62.1, final flow 106.4, shut-in pressure 1240.3. 2nd opening initial 115.3, final 248.3, shut-in pressure 1151.6, final hydrostatic pressure 1756.3.	